GOKUN, V.B.; DOBROSLAVSKIY, L.I., inzh., retsenzent; BEYYER, Yu.V., inzh., red.; KUNIN, P.A., inzh., red.izd-va; TIKHANOV, A.Ya., tekhn. red.

[Technological fundamentals of machinery design; essence, trends and methods for realization] Tekhnologicheskie osnovy konstruirovaniia mashin; sushchnost', naprevlenie i metody osushchestvleniia. Izd.3., perer. i dop. Moskva, Mashgiz, 1963. 735 p. (MIRA 17:1)

BEREZIN, Boris Prokop'yevich; MOSYAK, Aron Abramovich; NIKIFOROV,
Vikontiy Markianovich; POGODIN-ALSKSEYEV, Georgiy Ivanovich, prof.,
doktor tekhn.nauk; TITOV, Nikolay Dmitriyevich; SHPITAL'NYY, Boris
Gavrilovich; SHCHERBINA, Nikolay Aksent'yevich; KOKOSHKO, A.G.,
red.; BEYZEL'MAN, D.R., red.; NAUMOV, K.M., tekhn.red.

[Technology of the most important industrial branches] Tekhnologiia vazhneishikh otraslei promyshlennosti. Pod red. G.I.Pogodina-Alekseeva. Moskva, Izd-vo VPSh i AON pri TsK KPSS. Part 2. [Machinery industry; manual for higher party schools] Mashinostroenie; uchebnoe posobie dlia vysshikh partiinykh shkol. 1959. 376 p. (MIRA 12:11) (Machinery industry)

BETZEL'NAN, Rafail Davidovich

c. 163

Metal Cutting
Bearings

BEYZER, P.

Clearing-House

Wider expansion of branch work of the clearing house system, Den. i kred., 11, No 4, 1952.

Monthly List of Russian Accessions, Library of Congress July 1952 UNCLASSIFIED

Tie between the bank and regional economic council. Den. 1 kred.
15 no.12:35-36 D '57. (MIRA 11:2)

(Moldavia--Finance)

TSVETAYEV, N.; BEYZER, P.; YAKERSON, B., kreditnyy inspektor; KROL', V.

Effectiveness of State Bank credit in financing the mechanization of production. Den. i kred. 17 no.8:54-59 Ag 159. (MIRA 12:11)

1. Machal'nik proisvodstvenno-ekspluatatsionnogo otdela Moldavskoy respublikanskoy kontory Gosbanka (for TSvetayev). 2. Nachal'nik otdela kreditovaniya predpriyatiy sovnarkhoza Moldavskoy SSR (for Beyzer). 3. Starshiy inzh.-ekonomist Leyumskogo parovozoremontnogo zavoda (for Krol').

(Moldavia -- Machinery in industry -- Finance)

TSVETAYEV, N.; BEYZER, P.; KARTELISHEV, V.

For a wider dissemination of efficient practice in paying for goods and services. Den. i kred. 9 no.11:65-69 N '61. (MIRA 14:12)

1. Nachal'nik proizvodstvenno-ekspluatatsionnogo otdela Moldavskoy kontory Gosbanka (for TSvetayev). 2. Nachal'nik otdela kreditovaniya predpriyatiy sovnarkhoza Moldavskoy kontory Gosbanka (for Beyzer).
3. Nachal'nik uchetno-finansovogo otdela energoupravleniya Moldavskogo sovnarkhoza (for Kartelishev).

(Moldavia--Payment)

BEYZER, P.

Organization of films and their relations with the State Bank. Den.i kred. 21 no.2:57-59 F '63. (MIRA 16:2)

1. Nachal nik otdela kreditovaniya promyshlennosti soveta narodnogo khozyaystva Moldavskoy respublikanskoy kontory Gosbanka. (Moldavia—Banks and banking) (Moldavia—Industrial organization)

PAPUSHIN, L.L., inzh.; BEYZER, V.N., inzh.

Results of modernizing a jig. Ugol'. prom. no.6:59-60 N-D '62.

(MIRA 16:2)

1. Dometskiy sovet narodnogo khosymystva (for Papushin). 2. Yasinovskiy koksokhimsavod (for Beyser).

(Jigs and fixtures)

DUBINSKIY, Yu.M.; BEYZER, V.N.; GARMATA, V.V.

Modernization of jigging machines. Koks i khim. no.2:10-13 '63.

(MIRA 16:2)

1. Yasinovskiy koksokhimicheskiy zavod.
(Coal preparation plants—Equipment and supplies)

LITMANOVICH, I.M.; PAPUSHIN, L.L.; BEYZER, V.N.; BATURA, N.I.

Comparative testing of dewatering centrifuges. Koks i khim. no.3:11-14 163. (MIRA 16:3)

1. Yasinovskiy koksokhimicheskiy zavod.
(Donets Basin—Coal preparation) (Centrifuges—Testing)

PAPUSHIN, L.L.; BEYZER, V.N.; MILYUTIN, O.M.

Investigating rock disintegration by sogginess. Koks i khim. no.11: 12-14 '63. (MIRA 16:12)

1. Yasinovskiy koksokhimicheskiy zavod.

BEYZER, V.N.; ANDREYEV, M.A.; BOCHAROV, N.G.

Sources and value of slurry formation in coal preparation plants. Koks i khim. no.3:14-15 '64. (MIRA 17:4)

1. Yasinovskiy koksokhimicheskiy zavod.

MUSKAT, Leonid Veniaminovich; BEYZERMAN, A.N., nauchnyy red.; RYCHEK, T.I., red.; DORODNOVA, L.A., tekhn. red.

[Manual on materials for sanitation and ventilation mechanics and tinsmiths]Materialovedenie dlia slesarei-santekhnikov i slesarei-ventiliatsionnikov-zhestianshchikov. Moskva, Proftekhizdat, 1962. 187 p. (MIRA 15:9)

(Sanitary engineering equipment and supplies)

(Ventilation-Equipment and supplies)

PHASE I BOOK EXPLOITATION

80V/4486

- Beyzerman, D.Z., Engineer, I.M. Dzhioyev, Engineer, I.A. Gezentsvey, Engineer, and L. Ye. Purygin, Engineer
- Stroitel'stvo domennoy pechi ob"yemom 1,719 m³ (Building of a Blast Furnace of a 1,719 m³ Volume) Moscow, Gosstroyisdat, 1960. 140 p. Errata slip inserted. 2,500 copies printed.
- Scientific Ed.: N.K. Leonidov, Engineer; Ed. of Publishing House: Z.I. Vdovenko; Tech. Ed.: P. Ye. Ryazanov.
- FURFOSE: This book is intended for the personnel of construction organizations. It may also be useful for designers and for students of civil engineering schools of higher education.
- COVERAGE: The authors present results of experience gained in building a blast furnace having a 1,719 m² volume at a metallurgical plant in the Ukrainskaya SSR. Included are discussions of the basic design proposals for the construction of the furnace, industrial methods used for the completion of different types of

Card 1/4

Building of a Blast Furnace (Cont.) **807/4486** work and of the whole project, possibilities of reducing the time required for the completion of building and prospects for reducing labor consumption and costs. No personalities are mentioned. There are 9 references, all Soviet. TABLE OF CONTENTS: PART I. THE BLAST FURNACE PLANT AND CONSTRUCTION CONDITIONS Ch. I. Arrangement of the Plant and Description of Its Units 3 Ch. II. Conditions for Construction of the Plant 7 PART II. ORGANIZATION OF THE CONSTRUCTION OF THE PLANT Ch. I. Preparation of the Construction Organization Plan 10 Ch. II. Measures Taken to Ensure [the Timely] Blowing-In of the Blast Furnace 11 1. Preparatory work 12 2. Completion of general construction work 16 3. Distribution of building and erection work among contractors 19

22

APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205130007-3"

4. Supply of material and equipment

Card 2/4

BEYZERMAN, L.Z.

Rapid photocolorimetric determination of iron in nickel-base alloys. Zav. lab. 30 no.11:1331 64 (MIRA 18:1)

1. Chelyabinskiy metallurgicheskiy zavod.

MEL'NIK, V.I.; BEYZERMAN, R.M.

Use of automatic welding in the assembly of elements of blast furnaces. Prom. stroi. 40 no.7:32-35 *62. (MIRA 15:7) (Hlast furnaces-Welding)

LYADUKHIN, I.A.; NIKOLAYEV, A.F.; TARASOV, S.M.; DEVYATKOV, A.N.; VARKHOTOV, K.P.; ZLOTNIK, M.I.; YEVDOKIMOV, V.I.; LYSYAKOV, A.G.; GERSHTEYN, A.K.; KISS, N.L.; MEL'NIK, V.I.; BEYZERMAN, R.M.; SMIRNOV, I.M.; NIKUL'SHIN, K.Ye.

From the pages of Soviet magazines. Mekh. stroi. 19 no.9:31 S 162. (MIRA 15:9)

(Bibliography—Construction equipment)

Beyzerman, S.G

USSR/ Electronics - Instruments

Card 1/1

Pub. 133 - 2/23

Authors

: Vladimirov, A. S., Candidate of Technical Sciences; and Beyzerman, S. G., Engineer Junior Scientific Worker of the Research Institute of the Min-

Title

: istry of Communications

Oscillographic modulation meter

Periodical: Vest. syzazi 11, 3 - 6, Nov 1954

Abstract

Instruments controlling the modulation of radio transmitters are discussed, and an oscillographic modulation meter is described. This type of instrument is used for determining the modulation factor and its balance. Block and circuit diagrams are presented showing the circuit stages and the layout of the following component parts: R - F detector, A - F filters, resistances, phase-inverter, and the amplifier stage connected with a cathode-ray tube, wherethe modulated signals are traced. Detailed instructions are given for operating the modulation meter, and its technical characteristics relating to its high-quality performance are enumerated. Diagrams.

Institution:

Submitted:

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increasing the wearing quality and anticomposion properties of giston sings. To kt. 2 cell'income, no.1:38-Al Je 165.

(MIM 18:3)

1. Odenskiy tehhnologichertiy ingulud jishahe ay i kholodillasy promjehlennosti i Sjetsializirovannoye kunstruktorako-tekhnologichoshoye byuro pri Odenskom zarwa Manuelmentu.

BEYZEROV, M., insh.

Control system for a 225 mw. steam turbine equipped with a controllable double extraction. Energokhos.sa rub. no.6:17-21 N-D 58. (MIRA 12:4) (Linden, New Jersey--Turbogenerators)

SHTERN, Leybshi Yankelevich; BEYZEROV, Semen Moiseyevich; PLAVNIK,
Valentin Gilyar'yevich; INDENBAUM, V.S., red.; GOLYATKINA,
A.G., red. izd-va; VAYNSHTEYN, Ye.B., tekhn. red.

[Regulation and automation of air-blower and compresser plants]
Regulirovanie i avtomatizatsiia vozdukhoduvnykh i kompressornykh stantsii. Pod obshchei red. L.IA.Shterna. Moskva, Metallurgizdat, 1963. 378 p. (MIRA 16:8)

(Compressors) (Blowers) (Automatic control)

SHTERN, L.Ya., inzh.; BEYZEROV, S.M., inzh.

Improvement of the control systems of the turbocompressors of cupola furnaces. Prom. energ. 19 no.3:26-32 Mr '64.

(MIRA 17:4)

AUTHORS:

Khrizman, I.A., Bonwech, V.E., Beyzerov, Ye.H.

32-24-6-12/44

TITLE:

On the Methods of Determining Acid-, Ester- and Iodine Numbers in Lignite-Like Bitumen Substances (O metodakh opredeleniya kislotnogo efirnogo i iodnogo chisel v burougol'nykh bitumnykh

veshchestvakh)

PERIODICAL:

Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 692-694 (USSR)

ABSTRACT:

Two different methods of determining the content of unsaturated compounds in fats; oils, and mineral oil products are described in publications, viz., the methods developed by Gyubl' and Margoshes respectively. Whenever the latter method was applied to bituminous substances, the results obtained were mostly not as good as those obtained by the other method, which is explained by the incomplete dissolution of the unsaturated lignite-like bituminous substances in alcohol. The difference between the results obtained by the two methods is shown in a table. The method of determining the acid number described by G.L.Stadnikov (Ref 1) is analogous to that mentioned in OST-7872-36 and GOST 5985-51 for mineral oils and is based upon a titration of the alcoholic (or alcohol-benzene) solution of the substance with caustic potash,

Card 1/3

On the Methods of Determining Acid-, Ester- and Iodine Numbers in Lignite-Like Bitumen Substances

32-24-6-12/44

beside phenoiphthaiein and alkali-blue. In the present paper it is shown that these indicators as well as the application of an alcohol-benzene mixture render titration more difficult, whereas the application of a potentiometric method in accordance with GOST 1784-47 is too complicated. As blue coloring can be better observed in titration, tymolphthalein was investigated as an indicator, for which purpose various weighed portions and different quantities of solvents were used. It was found that 0.5 g of the substance per 50 ml of alcohol are sufficient, and that there is no necessity of using a mixture of solvents. A second series of tests showed, however, that for the purpose of determining acids not more than 2 g of the bitumen substance should be used for 50 ml of alcohol, whereas for the determination of the ester number a weighed portion of from 0.3 to 0.7 g per 50 ml of alcohol must be used. It was found that concentration of the lye causes an increase of the values of ester numbers. Saponification for one hour in boiling water suffices in order to obtain accurate values, and on the strength of these investigations it is recommended that methods of determination be precisely described. Data concerning the technique of analysis for the determination of acidand ester numbers are given. In this connection the editor says

Card 2/3

On the Methods of Determining Acid. Ester- and Iodine Numbers in Lignite-Like Bitumen Substances

32-24-6-12/44

that experiments are intended to be carried out for the purpose of testing the method developed by Kaufman, which is used for the determination of unsaturated hydrocarbons in gasoline used for aircraft according to GOST 2070-5! for the analysis of bituminous substances. There are 3 tables, and 2 references, 2 of which are Soviet.

ASSOCIATION:

Tsentral naya laboratoriy: Yuzhnoural skogo geologicheskogo upravleniya i Ufimskiy aviatsionnyy institute (Central Laboratory of the South Ural Geological Administration, and Ufa Institute of Aviation)

1. Acids--Determination 2 Esters--Determination 3. Iodine --Determination 4 Bituminous materials--Analysis 5. Titration

Card 3/3

Conference of the analytical chemists of Bashkiria, Zhur. VKHO
5 no.1:103 '60. (MIRA 14:4)

(Ufa—Chemistry, Analytical—Congresses)

IVANOV, V.M.; BEYZGALOV, V.Ye.; BULYCHEV, A.G.

Strangulation of a subcecal internal hernia. Vest. khir. 93 no.9: 114-115 S '64. (MIRA 18:4)

1. Iz khirurgicheskogo otdeleniya (zav. otdeleniyem - V.Ye.Bryzgalov, glavnyy vrach - M.A.Tver'ye) meditsinskoy sanitarnoy chasti No.9 Permi.

ACCESSION NR: AP4025004

s/0070/64/009/002/0308/0310

AUTHORS: Beyziter, L. K.; Vitol, I. K.

TITLE: Growing thin monocrystalline layers of semiconductors on a nonmonocrystalline base

SOURCE: Kristallografiya, v. 9, no. 2, 1964, 308-310

TOPIC TAGS: semiconductor, semiconductor crystal, crystal growth, monocrystal semiconductor layer, germanium base, tantalum base, glass base, quartz base, steel base, vacuum precipitation, Pierce electron gun, electron gun, crystallization angle effect

ABSTRACT: Very little information exists concerning the process of growing monocrystalline layers on polycrystalline or amorphous bases. It is known, however, that such processes are affected by two mutually opposite factors: the orienting tendency of a growing crystal and the disorienting influence of the base. The experiments described here were performed in order to study the possibility of decreasing the disorienting effect of the base by choosing proper thermal conditions. These experiments involved the vacuum precipitation of thin Ge layers Card 1/2

ACCESSION NR: APLO2500L

on tungsten, glass, quartz, tantalum and steel bases. The necessary temperature gradient was established with the J. R. Pierce linear electron gun generating an electron beam 1 mm wide. Data obtained showed that tungsten is the most suitable material for a base-plate because its affinity for Ge is weak and its thermal expansion coefficient is close to that of Ge. Maximum layer thickness (5 mm) was obtained when the base was heated on the underside. With the electron beam directed toward the growing layer, the maximum crystal height was only 0.3 mm. The success of the underside heating is attributed to the fact that under this condition the crystallization angle is positive and its value is at a maximum. "The authors express their appreciation to N. N. Sheftal! for the discussion of the results obtained, and to A. I. Vovsi and V. Ya. Krumin' for their help in the experimental part of this work." Orig. art. has: 2 figures.

ASSOCIATION: Latviyskiy gosudarstvenny*y universitet im. P. Stuchki (Latvian State University)

SUBMITTED: 27May63 DATE AQ: 16Apr64

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L 114618-66 EWT(1)/EWT(m)/T/EWP(t)/EWP(b) LJP(c) JD/GG
ACC NR: AT6002267 (V) SOURCE CODE: UR/2564/65/006/000/0319/0324

AUTHOR: Vitol, I. K.; Beyziter, L. K.

ORG: none

21, 41/15 5

TITLE: Conditions of formation of single-crystal thin films on a non-single-crystal subtrate [Paper presented at the Third Conference on Crystal Growing held in Moscow from 18 to 25 November, 1963]

SOURCE: AN SSSR. Institut kristallografii. Rost kristallov, v. 6, 1965, 319-324

TOPIC TAGS: single crystal growing, germanium single crystal, crystallization

ABSTRACT: Germanium films from 4 to 12 μ thick, obtained by evaporation onto various substrates (glass, quartz, Ta, W, Pt, steel, etc.), were used for zone crystallization. The thermal conditions of two-dimensional zone melting were theoretically calculated. It was found that two-dimensional zone melting with an electron beam can be used to obtain thin single-crystal films of germanium on non-single-crystal substrates. The maximum size of the single-crystal region obtained was 7 mm, but this is not the limit. Best experimental results were obtained on the side of the substrate opposed to that which was heated. This

Card 1/2

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ACC NR: AT6002267

confirms the hypothesis that the disorienting influence of the substrate on the growth of a thin single-crystal film can be minimized or eliminated by selecting a suitable thermal regime under which the crystallization angle φ cr > 0. The experimental germanium films obtained on the tungsten substrate are preferentially oriented in the [111] and [100] directions relative to the plane of the substrate. Authors are deeply grateful to N. N. Sheftal' for discussing the results of the study, to A. P. Livep for performing the numerical calculations, and to A. I. Vovsi and V. Ya. Krumin' for assistance in the experimental work. Orig. art. has: 4 figures and 6 formulas.

SUB CODE: 20 / SUBM DATE: none / ORIG REF: 004 / OTH REF: 009

Card 2/2

BEYZMAN, B.B., red.

[Proceedings of a conference devoted to the 40th anniversary of the Great October Socialist Revolution] Nauchnye trudy konferentsii, posviashchennoi 40-letiiu Velikoi Oktiabr'skoi sotsialisticheskoi revoliutsii. Moskva, Medgiz, 1959. 235 p. (MIRA 13:9)

1.Moscow. Gorodskaya klinicheskaya bol'nitsa no.18 imeni Oktyabr'skoy revolyutsii. (MEDICINE)

L 21113-66 EWT(d)/EWP(h)/EWP(1)

ACCESSION NR: AP5020030

UR/0100/65/000/008/0023/0023 629.1-43

AUTHORS: Loshak, I. A. (Engineer); Beyzym, Ya. T. (Engineer)

30 13

TITLE: Tri-axle tractor with trailer of high cross country mobility

SOURCE: Mekhanizatsiya stroitel'stva, no. 8, 1965, 23

TOPIC TAGS: transportation, construction machinery, tractor / MAZ 529B tractor, 2PP 25 semitrailer, YaAZ M206A engine

ABSTRACT: The Konstruktorsko-tekhnologicheskoye byuro (Construction Technology Bureau) of the Rostov Directorate of Construction, Glavsevkavstroy, completed the development and construction of a 25-ton vehicle designed for off-the-road use. The vehicle consists of the single-axle tractor MAZ-529B and the dual-axle semitrailer 2PP-25 of the Saratov Assembly Factory. The tractor-trailer combination is intended for use in transporting heavy construction equipment. The tractor is powered by the two-stroke, six-cylinder, 180 hp engine YaAZ-M206A. The tractor features a linking device of the fork type and can turn through an angle of 20° to either side of the trailer center line. The trailer has dual transversely balanced axles and a suspension system allowing axle motion in a vertical plane

Card 1/2

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ACCESSION NR: AP5020030

about the horizontal axis. The trailer also features a pneumatic braking system as well as a parking brake on all four sets of rear wheels. A special welded and bolted collar is used to join the trailer to the tractor; a supplementary chain linkage is provided so that the semitrailer may be used with ordinary dual axled tractors. A list of additional characteristics (dimensions, capacity, speed, tire sizes, operating characteristics, etc) of the combination is given. Tests of the vehicle indicate high mobility, reliability, maneuverability, and ease of control. Orig. art. has: 2 photographs.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: GO

NO REF SOV: OGO

OTHER: 000

B VK. Card 2/2

APPROVED FOR RELEASE: 06/08/2000

CIA-RDP86-00513R000205130007-3"

BEZ', Denis Fedorovich; KRAVCHENKO, Z.I., red.; BALLOD, A.I., tekhn.red.

[Accounting on collective farms: practical exercises] Bukhgalterskii uchet v kolkhozakh; prakticheskie zaniatiia. Moskva, Gos.izd-vo sel'khoz.lit-ry, 1959. (MIRA 13:6) (Collective farms--Accounting)

BEZA, J.

"Shining Eyes in the Fields." p. 6. (CESKOSLOVENSKE STATNI STATKY, Vol. 3, no. 16, Apr. 1951, Praha, Czechoslovakia)

So: Monthly List of East European Accessions, IC, Vol. 3, No. 5, May 1954/Unclassified

BEZA, Roman; PASTUSZEWSKA, Barbara

Compared results of the nutritional protein value (PER and NPU) determined on pair-fed and ad libitum fed rats. Zesz probl post nauk roln no.54:61-64.

1. Institute of Animal Physiology and Feeding in Jablonna, of the Polish Academy of Sciences.

H. BEZACIESTY

"Problems connected with the occurrence of Agaricus and bark beetles in the Presov area." p. 31. (Polina, Vol. 9, no. 2, Feb. 1953, Praha, Czechoslovakia.)

SO: Monthly List of East European Accessions, L.C., Vol. 2 No. 7, July 1953, Uncl.

BEZACINSKY, H.

Bezacinsky, H. Manual of a specialist in soil improvement through forestry methods. Tr. from the Russian, p. 53. LES. Bratislava. Vol. 1, no. 3, Mar. 1954.

SO: Monthly List of the E st European Accession, (EEAL), LC. Vol. 4, no. 10, Oct. 1955. Uncl.

BE MOINSKY, H.

Dusan Randuska's Fhenological Research in Forestry; a book review. p. 80 (Jesnicky Casopis Vol. 2, no. 1, 1956 Bratislava)

SO: Monthly 19st of Fast European Accession (FFAL) IC, Vol. 6, no. 7, July 1957. Uncl.

BEZACINSKY, Hubert

Lesne melioracie. (Forestry Ameliorations. a university textbook. illus., bibl., tables) Bratislava, SPN, 1957. 233 p.

Bibliografickly katalog, CSR, Slovenske Khihy. Vol. VIII. 1957. NO.9. p.281.

BEZACINSKY, H.

"Fir problems in Slovakia"

Lesnicky Casopis. Bratislava, Czechoslovakia. Vol. 5, no. 2, 1959

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

BEZACIASLY, H.

The Forest Month. p. 97.

Polana. Pverenictvo lesov a drevarskeho priemyslu. LES Vol. 15, no. 4, Apr. 1959. Polana, Czechoslovakia

Monthly list of East European Accessions (EEAI) IC Vol. 9. no. 2 Feb. 1960. Uncl.

BEZAK, Viadimir Tomifovich, kand. farmatomytichemkich en b., Shavelov, S.I., red.

[hodical instrumentarium and apparatus.] Reditsinskii instrumentarii i apparatura. Moskva, meditsina, 1975.

217 p. (Mil.A 1874)

CHKHEIDZE, R., BEZARASHVILI, L.

Some indices of the coagulating blood system following the injection of contrasting substance in phlebography. Soob. AN Gruz. SSR 38 no.2:457-464 My 165. (MIRA 18:9)

MACHABELI, M.S.; DZHAPARIDZE, T.N.; BOKERIYA, R.I.; LABAKHUA, G.Sh.; BEZARASHVILI, L.G.; KIKNAVELIDZE, N.D.

Indices of the blood coagulation system in healthy dogs. Soob.

AN Gruz. SSR 30 no.5:663-666 My 63. (MIRA 16:11)

l. Institut eksperimental noy i klinicheskoy khirurgii i gematologii AN GruzSSR, Tbilisi. Predstavleno akademikom K.D.Eristavi.

MACHABELL, M.S.; BELDRACHVILL, L.G.

Toluidine blue, an intrinition of hoperin, and prospects for the use in artificial blood of collection. Trudy inst. swap. i klin. khir. i gamat. All Cruz. SSR 11:75-79 163. (M. 86 17:8)

MIKELADZE, G.Sh.; NADIRADZE, Ye.M.; BEZARASHVILI, Sh.M.; DGEBUADZE, G.A.; TSKHVEDIANI, R.N.; CHIKASHUA, D.S.; METREVELI, A.I.

Making ferrosilicon in a closed electric furnace. Stal' 21 no.5: 419-422 My '61. (MIRA 14:5)

1. Institut metallurgii AN GSSR i Zestafonskiy zavod ferrosplavov. (Ferrosilicon—Electrometallurgy)

ACCESSION NR: AP4045204

S/0251/64/035/002/0379/0386

AUTIIOR: Gvelesiani, G.G., Bezarshvili, Sh. M., Mgaloblishvili, N.P.

TITLE: Aluminothermal reduction of europium oxide

SOURCE: AN GruzSSR. Soobshcheniya, v. 35, no. 2, 1964, 379-386

TOPIC TAGS: europium, europium oxide, europium oxide reduction, aluminothermal reduction, europium refining

ABSTRACT: This work is a continuation of earlier studies by the authors on aluminothermal reduction. The most promising method of obtaining pure europium is by the vacuum metallothermal reduction of the oxide. In the case of the reduction of Eu₂O₃ by aluminum, the equilibrium condition is determined solely by the europium vapor pressure since that of aluminum is negligible. This pressure was measured in high-temperature vacuum equipment for the high-temperature form of the oxide and an empirical equation was derived for the pressure and thermodynamic potential of the reaction. The kinetics of the reaction were studied for high- and low- temperature forms of the oxide, gas being evolved more rapidly from the former than from the latter, especially at 1100C. Graphs show europium output under various conditions of temperature for the aluminothermal

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ACCESSION NR: AP4045204

reduction process and Ginstling's equation is used to represent the results for the kinetic indices. The mechanism of the reduction process is discussed in terms of wetting, activation centers, crystal structure and grain size. Unlike the case of ytterbium, no intermediate aluminate is formed, and the metal obtained at 1150C contained 0.31% aluminum. "The authors thank Prof. V.A. Pazukhin for his attention and interest." Orig. art. has: 8 figures and 6 equations.

ASSOCIATION: Institut metallurgii, Akademiya nauk gruzinskoy SSR, Tiflis (Metallurgical Institute, Georgian SSR Academy of Sciences)

SUBMITTED: 02Jul64

ENCL: 00

SUB CODE: MM

NO REF SOV: 006

OTHER: 002

Card 2/2

MACZABELI, Maria Semenowna; BEZARASZWILI, Lamara Georgiewna

Toluidine blue as a heparin-inhibitor in vitro and possibilities of its use in hyperheparinemia caused by artificial extracorporeal circulation. Pol. tyg. lek. 17 no.38:1480-1484 17 S '62.

1. Z Instytutu Doswiadczalnej i Klinicznej Chirurgii oraz Hematologii w Tbilisi — Gruzja (ZSRR); dyrektor; prof. dr K.D. Eristawi, Czlonek rzeczywisty Akademii Nauk Gruzinskiej SSR.

(HEPARIN) (PHENOTHIAZINES) (DYES) (HEART MECHANICAL)

L_S3328-65 EWG(ij)/EWT(m)/EPF(c)/EPF(n)-2/EPR/EWP(t)/EWP(b) Pr-4/Ps-4/Pu-4

IJP(c) JD/WW/33

ACCESSION NR: AP5005561 S/0251/65/037/001/0121/0126

AUTHORS: Gvelesiani, G. G.; Bezarashvili, Sh. M.; Nadiradze, A. A.

TITLE: Zirconothermic reduction of europium pentoxide

SOURCE: AN GruzSSR. Soobshcheniya, v. 37, no. 1, 1965, 121-126

ABSTRACT: Results from an experimental study of zirconthermic reduction of Eu203 under vacuum are presented. Apparatus described by G. G. Gvelesiani, N. P. Mgaloblishvili, and A. A. Nadiradze (Vysokotemperaturnyye ustanovki dlya issledovaniya vakuumtermicheskikh vosstanovleniy. Trudy Gruzinskogo instituta metallurgii, v. XIV, 1965) was used. Experiments were conducted on briquettes weighing 1.5-2 g and made of mixed powders of C, Eu203, and Zr. The yield of Zr increased at 1000-1300C (with the increase of the molar ratio of Zr/Eu203 to 3.75), down after a few minutes. Raising the temperature increased the rate of reaction at its early stages (see Fig. 1 on the Enclosure). Experimental data were processed mathematically by the method of P. P. Budnikov and A. M. Ginstling

L 33323-65

ACCESSION NR: AP5005561

(Reaktoli v smesyakh tverdykh veshchestv. Gozstroyizdat, M., 1961) and are presented graphically. It was found that increasing the pressure during the formation of briquettes decreased the yield of Eu and the rate of reaction, while reducing the particle size of Zr from 1+0.5 to 0.25+0.1 nm had the opposite effect. Lowering the particle size of Eu₂O₃ from 2 to 0.05 mm increased the percent yield of Eu from 13 to 65. The reaction was found to involve the solid phases of the ingredients without forming any intermediate products. The optimal pressure was 10-2 mm Hg. The process is inhibited by vaporization of Eu and by diffusional retardation. Orig. art. has: h figures and 2 tables.

ASSOCIATION: Gruzinskiy institut metallurgii, Tbilisi (Georgian Institute of

SUBMITTED: 260ct64

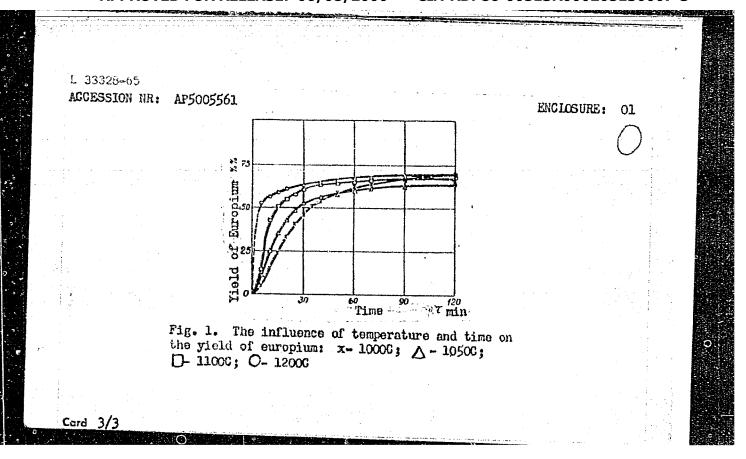
ENGL: Ol

SUB CODE: GC

NO REF SOV: 003

OTHER: 000

Card 9/2



18(5.7)AUTHÓR:

Bezbakh, D.K., Engineer

SOV/125- 59-5-10/16

TITLE:

Rate Setting for the Welding of Short Welds

PERIODICAL:

Avtomaticheskaya svarka, 1959, Vol 12, Nr 5, (74) pp 87-90 (USSR)

ABSTRACT:

The author states, that the setting of basic output rates gives the possibility of regulating the wages of the workers. For this purpose it is necessary to perfect the methods of calculating these rates. The author presents the calculations for output rates for welding of short welds. He gives the formula: T = (Tsh - t) L + t (Min). Tsh is the time of welding m/min, L is the length of weld and t = 20 Tsh. This formula is

meant for welding under the conditions of serial and small serial production, without considering any correcting factors. There are 1 graph, 2 tables and 5

Soviet references.

ASSOCIATION: Nikolayevskiy zavod "Dormashina" (Nikolayevsk Plant

Preheating the electrodes to increase the welding productivity.

Avtom.svar. 15 no.4:33-38 Ap '62. (MIRA 15:3)

(Elegtric welding)

Determining the coefficient of compaction of powder wire.

Avtom. svar. 16 no.7:41-42 J1 *63. (MIRA 16:8)

(Metal powder products)

BEZBAKH, D.K., inzh.

Peculiarities in the manufacture of powder metal wire. Svar. proizv. no.8:29-31 Ag '63. (MIRA 17:1)

BENBAMA, the techniques

low-adjusting parameters of the heating one melonic of powers
metal wire. Avtom. svar. 18 no.5:29-31 My 165. (MIRA 18 no.

BEZBAKH, P.K., inch.

Kinetics of gas saturation in some methods of fusion welding.

Svar. proizv. no.10:14-16 0 65. (MIRA 18:10)

BFZBANTNYY, N.I., inzh.; NOVATSKIY, A.A., inzh.

Mechanization of finishing work. Mekh. stroi. 20 no.10:15-16 0 '63.

(MIRA 16:10)

WE SCHAME, 8.6.; BECARACHVILL, Sh.M.

Soob. AN Gruz. SSR 39 no.3:669-674 S *65. (WHA 18:10)

L. Crezitskiy institut metallingth. Submitted February 16,

BeZbaragte, Pa.I.

USSR/ Physical Chemistry - Atom

B-3

: Referat Zhur - Khimiya, No 3, 1957, 7130 Abs Jour

Author

Bezbarayte Ya.I., Kantserevichyus A.I., and Yutsis A.P.

Inst

: Not given

Title

: Fock's Self-Consistent Field for the Excited Helium

Atom

Orig Pub

: Optika i spektroskopiya, 1956, Vol 1, No 1, 9-16

Abstract

: The equation for the self-consistent field of Fock has been solved for the 1s2s, 1s2p, 1s3p, and 1s4p configurations of the He atom. The possibility of simplifying Fock's equation is discussed. Simplified Fock equations have been solved for the 1s5p, 1s6p, 1s3d, 1s4d, 1s5d, and 1s6d configurations of the He atom. The solutions of these equations are used in the calculation of the total energy. Values are given for the total dipole energy for transitions between the ground-state configuration of He and the excited states as well as the transitions between

the excited states.

Card 1/1

1:201:1

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AUTHORS:

Berbarodov, M.A., Mazo, E.E., and Kaminskaya, V.S.

TITLE:

Study of some factors affecting adhesion of

enamels to aluminum (A preliminary statement)

PERIODICAL:

Izvestiya Akademii Nauk Belarusskoy SSR. Seriya, no.3,

1962. 54-57

TEXT: Thermal expansion, viscosity of the vitreous enamel in softened state, and wetting of the metal by the enamel were investigated on 14 specimens of glass of different composition at 600°C and at lower temperatures. Natural sand and technical minium were used for the reparation of vitreous enamels. Other components were C.P. Enamel coating and surface preparation of the metal were performed as described in authors' previous paper (Bezborodov,

S/201/62/000/003/002/002 I001/I201

Study of some factors...

M.A. and others, DAN BSSR, no.7, 1959). The results of investigation showed that there is no single factor conditioning the strength of adhesion. Reducing the difference in the termal expansion between the joining elements weakens the adhesion. Decrease of viscosity in the softened state of the enamel improves the adhesion. In the studied specimens lead oxide had the greatest power on reducing viscosity in softened state of the enamel. Borde anhydride and oxides of alkali metals substituting PbO increase the visosity. In leadless enamels lithium oxide has the greatest effect on enamel scaling. There are 2 figures and 1 table.

ASSOCIATION: Labaratoriya fizichnay Khimii tekhnologii silikataw IA Nkh AN BSSR (Laboratory of Physico-chemical Technology of Silicates in IA NKh As BSSR)

Card 2/2

ECSIYENVO, V.S.; BEZERRSHENVA

Tetermination of hemoglobic in blood plasma. Lab. delo no. 8: 479-480 164. (Mika 17:12)

l. Laboratoriya eksperimentel'noy terapsi raka Ukrainakogo nauchno-issledovatel'skogo instituta/eksperimentel'noy i klinicheskoy onkologii (direktor - akademik AN Ukrasa R.Ye.Kavetskiy), Kiyev.

BEZBOROD'KO, B.I.

Importance of determining the C-reactive protein combined with other immunobiochemical indices in the diagnosis of latent forms of rheumatic fever. Sov. med. 27 no.12:40-42 D:63 (MIRA 17:4)

l. Iz kafedry vtoroy gospital'noy terapii (zav. - prof. V.N.
Dzyak) Dhepropetrovskogo meditsinskogo instituta.

BEZBATCHENKO A.L.

SUBJECT USSR / PHYSICS

CARD 1 / 2

PA - 1754

AUTHOR

BEZBATCENKO, A.L., GOLOVIN, I.N., IVANOV, D.P., KIRILLOV, V.D.,

JAVLINSKIJ, N.A.

TITLE

The Investigation of a Gas Discharge with High Amperage in a

Longitudinal Magnetic Field.

PERIODICAL

Atomnaja Energija, 1, fasc.5, 26-37 (1956)

Issued: 1 / 1957

The present work describes the investigations of a gas discharge in deuterium at pressures of from 0,05 to 0,4 mm torr. The stages of the discharge from the growth of the field from zero to the maximum are investigated. Amperage attained 700 kiloamperes and the field strength of the longitudinal field was 12000 Ørsted. Investigations were carried out at a field strength of the longitudinal field which was comparable to that of the discharge current. The momentum device used is explained on the basis of a drawing. It consists of a glass or farfor tube of a length of from 65 to 70 cm and with a diameter of from 18 to 20 cm with plane copper electrodes. These tubes are mounted inside a coil of 36 cm diameter. The condenser pile with \ddot{c}_1 = 23.000 microfarads on the occasion of its discharge by way of a spherical discharger produces damped electric oscillations with a frequency of 73 c.

Summary and discussion of results: The longitudinal magnetic field delays the compression of the discharge column under the influence of the eigenfield of the current. Breakdown of the discharge column begins later than at $H_0 = 0$. (H_0 longitudinal field before the discharge). At $H_0 \leq 2000$ Ørsted radial

A-tomnaja Energija, 1, fasc.5, 26-37 (1956) CARD 2 / 2 PA - 1754 oscillations of the column are noticed after the first compression. The column then curves and eventually loses its sharp contours. Thus the decay process in the cases of the existence of a longitudinal field differs considerably from breakdown in the case of a lacking exterior longitudinal field. The increase of the field strength of the longitudinal magnetic field in the column of the gas discharge cannot be fully explained by compression of the column alone. Obviously part of the observed effect is due to the anisotropy of the conductivity of the plasm in the magnetic field. Within the error limits of the experiment the discharge occurs in the case of equilibrium being established between the pressures of the longitudinal field and those of the magnetic eigenfield, which points in the direction of a comparatively low temperature of the plasma. It was estimated that the temperature of the plasm does not exceed 15-20 eV. The conductivity of the plasm which was estimated from the capture of magnetic current, attains 4.10¹⁴ CGSE after from four to five microseconds. The ionization coefficient of the plasma column, according to an estimate of conductivity, attains the value of 15%.

INSTITUTION:

BEZBATCHENKO, A.L.

SUBJECT USSR / PHYSICS AUTHOR

CARD 1 / 2 PA - 1977 BEZBATČENKO, A.L., GOLOVIN, I.N., IVANOV, D.P., KIRILLOV, V.D.

JAVLINSKIJ, N.A.

TITLE On the Influence Exercised by a Longitudinal Magnetic Field on a

Pulse-Like Gas Discharge with High Amperage.

PERIODICAL Dokl.Akad.Nauk 111, fasc. 2, 319-321 (1956)

Issued: 1 / 1957

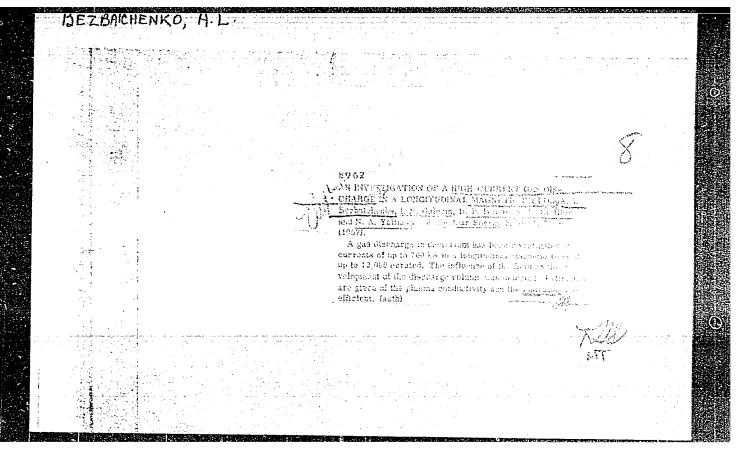
The authors investigated the influence exercised by a longitudinal magnetic field on the stability of a plasma column obtained by the pulse-like passage of a current through deuterium. Gas pressure on the occasion of these experiments amounted to from 0,05 to 0,4 mm torr. Amperage attained 700.000 ampères and the field strength of the longitudinal magnetic field was 12.000 Ørsted. A farfor or glass tube with a radius of 10 cm and an electrode distance of 70 cm served as discharge chamber. The scheme of the experimental system is shown in form of a diagram. On the occasion of these tests the strength of the discharge current, the voltage between the electrodes, the radius of the discharge column, and the average field strength of the longitudinal magnetic field in the plasma were determined simultaneously.

An enclosure shows recording of the discharge column during the first 10 microseconds. In the case of the presence of a longitudinal magnetic field the column contracts during the first 5 to 6 microseconds but remains homogeneous with respect to length. With an increase of field strength up to 6000 Ørsted compression slows down noticeably and a further increase of field strength is

Dokl. Akad. Nauk 111, fasc. 2, 319-321 (1956) CARD 2 / 2 PA - 1977 only little noticeable. At field strengths of 700 and 2000 prsted radial oscillations of the discharge column are noticed. The time of existence of a sharply outlined column is much longer in the case of the existence of a longitudinal magnetic field than if such a field is lacking. In the case of weak longitudinal fields the discharge column curves in the 8. microsecond, on which occasion it remains sharply outlined. However, if a longitudinal field is lacking, the discharge column loses its sharp outline already in the fifth microsecond. The duration of the existence of a sharply outlined column increases under the effect of a longitudinal field to a greater extent than the compression velocity diminishes.

Next, the conditions for the development of the elementary theory for the compression of the discharge column under the effect of the own magnetic field in the case of the existence of a longitudinal magnetic field are given. At a field strength of 2000 Ørsted the computed curves agree satisfactorily with experimental data, but at 6000 and 12000 Ørsted the computed contraction is several times lower than the observed one. Therefore the strong longitudinal field is not frozen in and a considerable part of its flux emerges from the column during the contraction. The authors obtained a solution of the equation of motion which agrees well with measuring results. In the case of very weak magnetic fields the flux of the longitudinal field within the column increases.

INSTITUTION:

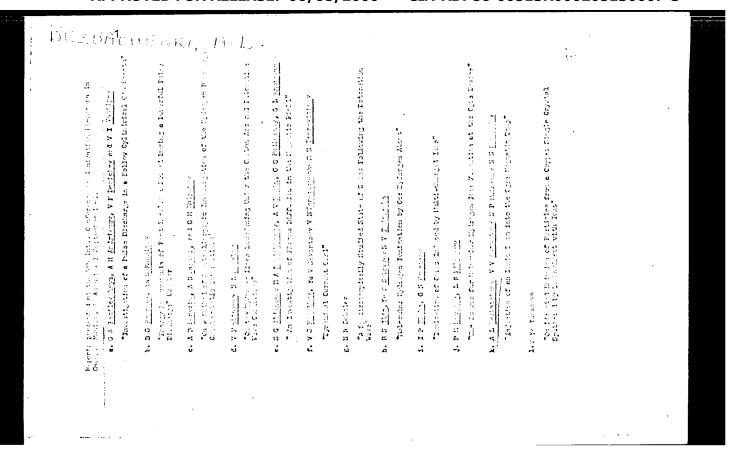


BEZBATCHEIKO, A. L., GOLOVIN, I. N., KOZLOV, P. I., STRELKOV, V. S. and YAVLINSKIY, N. A.

"The Electrodeless Discharge with High Current in a Toroidal Chamber with a Longitudinal Magnetic Field." (Work carried out in 1956-57); pp. 116-133.

"The Physics of Plasmas; Problems of Controlled Thermonuclear Reactions." Vol. IV. 1958, published by Inst. Atomic Energy, Acad. Sci. USSR. resp. ed. M. A. Leontovich, editorial work V. I. Kogan.

Available in Library.



L 11130-63

EWT(1), EWG(k)/EWT(m) EDS/ES(w)-2 Pz-4/Pab-4/Pi-4/Po-4 AT/IJP(C) AFFTC/ASD/ESD-3/AFWL/SSD

ACCESSION NR: AP300

AP3001173

5/0089/63/014/005/0446/0452

AUTHOR: Bezbatchenko, A. L.; Kuznetsov, V. V.; Malakhov, N. P.; Semashko, N. N.

TITLE: Injections of ion beam into the magnetic trap "Ogra" /9

SOURCE: Atomnaya energiya, v. 14, no. 5, 1963, 446-452

81

TOPIC TAGS: ion injection, plasma, magnetic trap

ABSTRACT: The paper describes experimental results on obtaining, focusing, and injection of a beam of molecular hydrogen ions of energy up to 180 kev into the magnetic field of the "Ogra." The ion current introduced into the trap was about 150 ma. The ions are introduced into the trap through a magnetic channel which consists of an iron screen with a compensating current winding for weakening the field inside the channel (see Enclosure). The distortion of the magnetic field of the trap caused by the iron injection channel is in the working part only a few percent. Details of the ion source, ion injector optics, and of the magnetic channel are given. Orig. art. has: 7 figures.

ASSOCIATION: none

Card 1/3/

I SZI CHODING, P.I.

"Changes in Certain Functions of the Liver in Ulcar Patients Following Selative Thorapy." Gund Med Sci, Dnepropetrovsk State Medical Inst, Dnepropetrovsk, 1955. (NL, No 15, Arr 55)

SC: Sum. No. 704, 2 Nov 55 - Survey of Scientific and Technical Discertations Defended at USBR Higher Electrical Institutions (16).

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١	"F	following sleep treatment the levels in the majority of cases. This was no caned by improvement of the gastric	refurned to normal in of necessarily accom			
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"Acute abdomen" in Henoch's purpura. Vrach.delo no.7:735-737 J1'58

1. Kafedra gospital noy terapii (zav. dots. E.V. Khait)
Dnepropetrovskogo meditsinskogo instituta.
(PURPURA (PATHOLOGY))

BEZBOROD'KO, B.N., kand.med.nauk

Rapid course of primary cancer of the liver. Vrach.delo no.10:1039-1041 0 159. (MIRA 13:2)

1. Kafedra gospital'noy terapii No.2 (saveduyushchiy - dotsent R.V. Khait) Dnepropetrovskogo meditsinskogo instituta.
(LIVER--CANCER)

DZYAK, V.N., dotsent; BEZBOROD'KO, B.N., dotsent

So-called ambulatory forms of rheumatic fever in adults. Vrach.delo no.11:28-31 N *60. (MIRA 13:11)

BEZBOROD'KO, B.N., dotsent

Treatment of hypertension with izoverin. Vrach. delo no. 1:18-22 (MIRA 14:4)

l. Kafedra gospital'noy terapii II (zav. - dotsent V.N. Dzyak)
Dnepropetrovskogo meditsinskogo instituta.

(HYPERTENSION) (PENTANEDIAMINE)

BEZBOROD'KO, B.N.

Effect of euphyllin on the coronary flow; experimental study. Farm.i toks. 24 no.1:70-74 Ja-F '61. (MIRA 14:5)

1. Kafedra farmakologii (zav. - prof. G.Ye.Batrak) i kafedra gospital'noy terapii No.2 (zav. - dotsent V.N.Dzyak) Dnepropetrovskogo meditsinskogo instituta. (AMINOPHYLLINE) (CORONARY VESSELS)

BEZBOROD'KO, B.N., dotsent

Diagnostic importance of the albumin method of determining a titer (antistreptolysin-0 in rheumatic fever. Vop. revm. 3 no.3x67-71 J1-5*63 (MIRA 17x3)

1. Iz 2-y kafedry gospital noy terapii (zav. - prof. V.N. Dzyak) Dnepropetrovskogo meditsinskogo instituta.

DZYAK, B.N.; FURS, I.T.; BEZBOROD'KO, B.N.

Comparative evaluation of the effect of some preparations from the group of organic nitrates on the cardiovascular system under experimental conditions. Farm. i toks. 26 no.1:47-52

1. Kafedra gospital ncy terapii No.2 (zav. - prof. V.N. Dzyak)
Dnepropetrovskogo meditsinskogo instituta.

"APPROVED FOR RELEASE: 06/08/2000 CIA-RDP86-00513R000205130007-3

	Card 3/3		the be cal an etyren and it 2 tabl	design of the latest property of the latest p		2 2 2	•	
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Quantitative determination of double bonds in unsaturated compounds by the hydrogenation method. Plast.massy no.1:59-62 '61.

(Unsaturated compounds)

(Unsaturated compounds)

5-3700

S/191/61/000/003/012/015 B124/B203

AUTHOR:

Bezborodko, G. L.

TITLE:

Comparison of procedures for the synthesis of 4-chloro acetophenone with the Friedel-Crafts method

PERIODICAL: Plasticheskiye massy, no. 3, 1961, 64-66

TEXT: Aliphatic aromatic ketones can be obtained, according to Friedel-Crafts, in the presence of aluminum chloride as a catalyst either by condensation of aromatic hydrocarbons (or their alkyl and halogen derivatives) with chlorides of unsaturated monocarboxylic acids, or by condensation of the same hydrocarbons with anhydrides of these acids. In RCOC1 + R'H ->> RCOR' + HC1. According to the equation: proceeds in three stages, namely:

Card 1/5

Comparison of procedures ...

S/191/61/000/003/012/015 B124/B203

(I) RCOC1 + AlCl₃
$$\longrightarrow$$
 RCOC1 · AlCl₃
(II) RCOC1 · AlCl₃ + HR · \longrightarrow RCOC · AlCl₃ + HCl
(III) RCOC · AlCl₃ + nH₂ 0 \longrightarrow RCOR · + AlCl₃ · nH₂ 0

In the synthesis concerned, R is CH_3 , and R' is C_6H_4Cl . At the NIIPP, a procedure was developed for obtaining the ketone by arylation of chlorobenzene with acetyl chloride without a solvent, and tested at the pilot plant. The synthesis of 4-chloro acetophenone with the use of acetic anhydride as acylation agent was also tested. A. Andrianovskiy (Ref. 13: ZhRFKhO, 11, 116 (1879)) observed, that aluminum chloride transformed acetic anhydride into acetyl chloride. P. H. Groggins and R. H. Nagel (Ref. 14: Ind. Eng. Chem., 26, 131421316 (1934)) used acetic anhydride and two or more moles of AlCl for acylating various hydrocarbons, thus in-

creasing the ketone yield. In the present paper, the author determines the most favorable conditions of producing 4-chloro acetophenone (intermediate in the synthesis of monochloro styrene) in the acylation of chloro-

Card 2/5

Comparison of procedures...

S/191/61/000/003/012/015 B124/B203

benzene by means of acetic anhydride, compares this method with the one developed earlier, and works out an efficient procedure for the industrial purposes. He studied the effect of the component ratio on the synthetic ketone yield, the effect of the order in which the admixtures are added, that with acetyl chloride were conducted without a solvent. At a ratio chlorobenzene: acetic anhydride = 2:1, the most favorable quantity of from 1 to 1.1 moles, positive results were obtained (see table, experinchloride: acetic anhydride is 2:3.3:1.1, the ketone yield reaching the use of acetic anhydride is more convenient than that of acetyl experiments. There are 1 table and 18 references: 4 Soviet-bloc and

Card 3/5

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1	128	72	32,6	100	10	88	7,89	82,89	2.6	63	6	73,6	80.3	Уксусный вигидрид без пере-
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11 12	146.5 112	75 75	41.1 52.5	104 80	6 4	100	7.85 2.0	72,55 90.0 87,5	3.92 3.0 6.25	75,0 90 84 (7	6.8 2 ОСледы	76,0 87,5 82,5	79.5 90.0 82,5	Опыт с хлори- тым аце- тилом

Comparison of procedures ...

S/191/61/000/003/012/015 B124/B203

Legend to the table: Results of chlorobenzene acylation by means of acetic anhydride. (1) No. of experiment, (2) charge, g, (a) acetic anhydride, (3) temperature, C, (4) reaction time, hr, (5) raw product obtained, g, (6) composition of the raw ketone, %, (b) chlorobenzene, (c) ketone, (d) residue, (7) obtained, g, (e) 100% ketone, (f) recycled chlorobenzene, (8) ketone yield, (g) per chlorobenzene weighed in, (h) per chlorobenzene reacted, (9) note, (10) acetic anhydride, not calculated to a 100% purity, (11) experiment with acetyl chloride, (12) traces.

X

Card 5/5

. . . .

Economical no.4:63-65 (Isop	method of dehydrating 161. ropyl alcohol)	ng isopropyl alcohol. Pl (MI (Dehydration (Chemistr	RA J4:4)
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8/191/63/000/002/002/019 B101/B186

AUTHORS:

Colubeva, A. V., Katatov, O. L. (Deceased), Heymark, O. M. (Deceased), Bestorodko, G. L., Kon, L. V., Usanova, H. F.,

Doynikova, 8. 8.

TITLE:

Synthesis and polymerisation of styrene derivatives. Syn-

themis of chloro derivatives of styrene

PERIODICAL:

Plasticheskiye massy, no. 2, 1963, 3-6

TEXT: To produce polymers with higher heat registance than styrene the synthesis of 2,5-dichloro styrene and monochloro styrene was studied, these being intended for use as monomers in the production of new polymers. The initial substance for the synthesis of 2,5-dichloro styrene was p-dichloro benzene ethylated by ethylene or by ethyl chloride, in the presence of AlCl₃ to make ethyl-p-dichloro benzene. The synthesis of 2,5-dichloro styrene was attempted in several ways: (!) Chlorination of ethyl-p-dichloro benzene to α-chloro-ethyl-p-dichloro benzene, saponification with Na₂CO₃ to p-dichloro-phenyl methyl carbinol, and dehydration with Al₂O₃ to Card 1/3

Synthesis and polymerization ...

B/191/63/000/002/002/019 B101/B186

2,5-dichlore styrene. This method has the disadvantages that c-chloreethyl-p-dichloro benzene decomposes on rectification, that two carbinol. modifications are obtained, and that the yield is only 25-27%. (2) Behydrochlorination of a-chloro-ethyl-p-dichloro benzene with Baso, or Caso, at 350-400°C yielded 65-80% 2,5-dichloro styrene, but the activity of the catalyst decreased rapidly so that frequent regeneration in 0, at 500°C was necessary. (3) Dehydrogenation of ethyl-p-dichloro benzene with styrene contact catalysts at 600-620°C, 10-12 mm Hg, gave a 39% yield; but at these temperatures HCl was formed as the result of pyrolysis. (4) Acylation of p-dichloro benzene with acctyl chloride, acetic anhydride, or acetic acid according to Friedel-Crafts to p-dichloro acetophenone, reduction of the phenone with aluminum isopropylate to p-dichloro-phenyl methyl carbinol, and dehydration with Al₂O₃ gave a 55-60% yield of 2,5-dichloro styrene. The dehydration was studied at various temperatures in CO2 and N2 atmospheres. The reaction products were stable up to 450°C and HCl formed only at higher temperatures. To synthesize monachlore styrene, chlore bensene was acetylated with acetyl chlorids or acetic anhydride without a ecivent

Synthesis and polymerisation ...

5/191/63/000/002/002/019 B101/B186

to p-chloro acetophenons, then reduced with aluminum isopropylate is isopropanol to p-chloro-phenyl mathyl carbinol, and dehydrated with molten KHSO₄ or with Al₂O₃ to p-chloro styrens. The quantitative reduction of the ketone succeeded with 50-60% aluminum isopropylate. There are 2 figures.

Car4 3/3.

S/191/63/000/004/001/015 B101/B186

AUTHORS:

Golubeva, A. V., Katstov, C. L. (Deceased), Bezborodko, G. L., Kon, A. V., Usmanova, N. F., Doynikova, S. N.

TITLE:

Synthesis and polymerization of styrene derivatives. Polymers of p-chlorostyrene and 2,5-dichlorostyrene

PERIODICAL: Plasticheskiy massy, no. 4, 1963, 4 - 6

TEXT: Mass polymers were produced from styrene, p-chlorostyrene, and 2,5-dichlorostyrene under equal conditions. Their physico-mechanical and dielectric properties were compared. Results:

average-number
molecular weight
impact strength, kg/cm ² bending strength, kg/cm ²
bending strength, kg/cm2
Vicat heat resistance. Oc
Vicat heat resistance, octano at 106 cps
breaking voltage kv/mm
/-

	_		
	Poly-p-chloro- styrene	Poly-2,5-di- chlorostyrene	Polystyrene
	340.000	810.000	400.000
ŀ	14	6-9	18-20
	900	600	1100
	140-142	150	110
	0.0004-0.0005	0.0002-0.0003	0.0002
	25	28	20-22

Card 1/2

Synthesis and polymerization of ...

S/191/63/000/004/001/015 B101/B186

Poly-2,5-dichlorostyrene was stable to a 7-day action of 96% H₂SO₄, 34% HCl, 65% HNO₃, 99% CH₃COOH at room temperature, whereas poly-p-chlorostyrene cracked at these concentrations. Both chlorine derivatives were stable to 60% H₃PO₄, 85% HCOOH, 50% NaOH, oil, glycerol, and gasoline under the above conditions. Optimum conditions for molding, compression molding, and extruding polymers were studied. Poly-2,5-dichlorostyrene was molded at 180 - 190°C, 250 - 300 kg/cm², or at 260 - 265°C, 1200 - 1500 kg/cm². For poly-p-chlorostyrene, the temperature could be decreased to 175 - 180°C, and 250 - 260°C, respectively. Heat treatment of the pressed samples when kept in a thermostat at 90 - 100°C for several hours, is essential to eliminate cracks. Higher heat resistance makes chlorostyrene derivatives superior to styrene. Their mechanical strength, however, is lower than that of styrene. The only disadvantage of poly-2,5-dichlorostyrene is that HCl is liberated above 250°C. There are 4 figures and 2 tables.

Card 2/2

L 13366-63 EPF(c)/EWP(j)/BDS/EWT(m)/ES(s)-2 AFFTC/ASD/ESD-3/SSD Pr-4/Pc-4/Pt-4 RM/WW

ACCESSION NR: AP3003300

8/0191/63/000/ 007/0008/0009

AUTHORS: Golubeva, A. V.; Tolstikova, Z. D.; Sivograkova, K. A.; Bezborodko, G. L.

19

TITIE: The synthesis and polymerization of styrole derivatives. Synthesis and polymerization of methylstyrole derivatives

SOURCE: Plasticheskiye massy*, no. 7, 1963, 8-9

TOPIC TAGS: methylstyrole, dimethylstyrole, synthesis, polymerization, bromotoluene, magnesium, methylphenol, paraxylene

ABSTRACT: o-methylstyrole and 2,5-dimethylstyrole were synthesized and studied in detail. o-methylstyrole was synthesized from o-bromotoluene using organic magnesium compound and a subsequent oxidation with ethylene oxide, followed by hydrolysis of the obtained o-methylphenol alcohol over KOH 2,5-dimethylstyrole was synthesized from paraxylene by the method of 2,5-dimethylacetophenon. The polymers of o-methylstyrole and 2,5-dimethylstyrole were obtained by block and emulsion methods. Their physico-mechanical and dielectric properties were studied. It was determined that o-methylstyrole and 2,5-dimethylstyrole polymers possess

Card 1/2